Ohio State Engineer

Title: Mirrors Measure Hot Steel Plate

Issue Date: 1943-05

Publisher: Ohio State University, College of Engineering

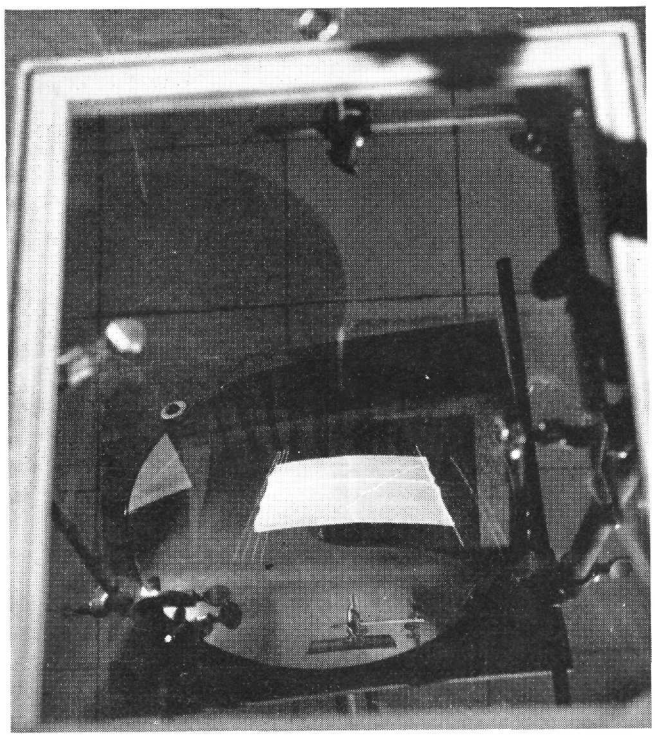
Citation: Ohio State Engineer, vol. 26, no. 6 (May, 1943), 18.

URI: http://hdl.handle.net/1811/35959

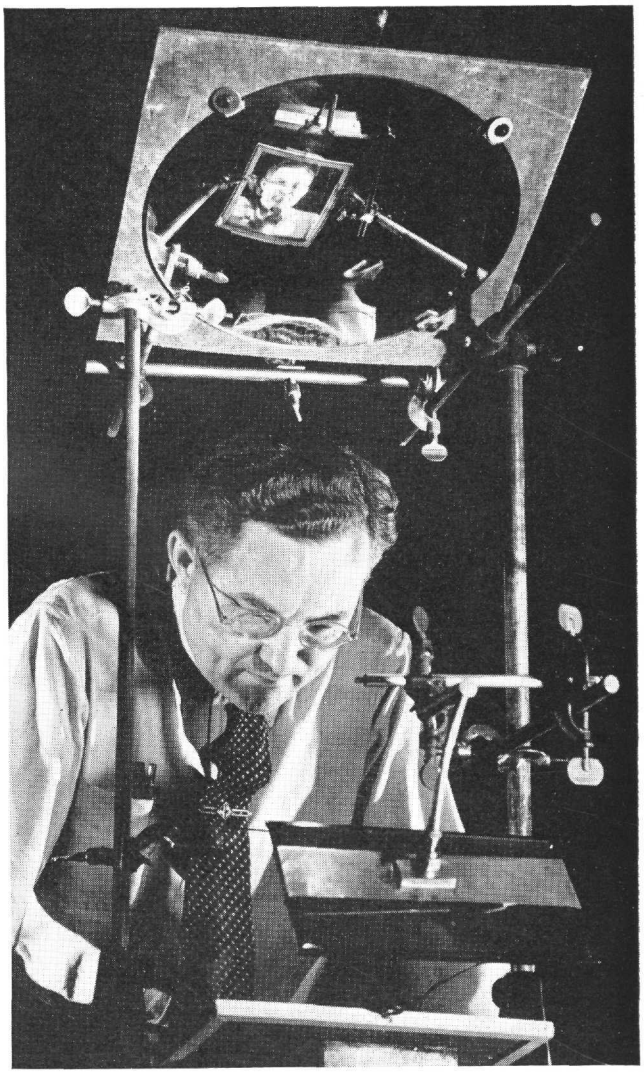
MIRRORS MEASURE HOT STEEL PLATE

Steel plates must be accurate to within one-half inch in width before they are rolled into long sheets. At present these plates are measured with a hand gage as they move along plates up to thirteen feet in width. A system of mirrors which enable workmen to measure at a glance the width of the yellow hot steel slabs has been devised.

A mirror is aimed at the steel as it leaves the rolls of the mill. A second mirror is aimed at a chart with widths on it. Images from both mirrors are aimed at a third mirror. From these two superimposed images the rolling mill operator can read the width of the steel plate at a glance.



● View of hot steel plate with mirrors. Note gage lines to determine width of slab.



● The mirror system for measuring hot steel without hand gaging. *Courtesy Westinghouse*